

Please amend the subject patent application as follows:

In the Specification

Please replace the paragraph at page 37, lines 7 through 9 with the following paragraph:

b1
Results for each C/EBP reaction were normalized for RNA amounts against a paired QPCR reaction for TF2D, a control gene which shows no transcriptional changes in these contexts.

Amendments to the specification are indicated in the attached "Marked Up Version of Amendments" (page i).

In the Claims

Claims 11 and 24 have been amended as shown below. Amendments to the claims are indicated in the attached "Marked Up Version of Amendments" (pages i - iii).

Sub
C
b2

11. (Amended) A method of identifying a gene or genes involved in transcription-dependent memory comprising the steps of:

- (a) training Drosophila under conditions appropriate to induce transcription-dependent memory formation in said Drosophila;
- (b) extracting RNA from head tissue of Drosophila trained in step (a);
- (c) synthesizing labeled cDNA probes complementary to the RNA extracted in step (b);
- (d) hybridizing the DNA probes synthesized in step (c) to microarray chips containing DNA sequences from genes of the Drosophila genome under conditions appropriate for hybridization of the DNA probes to complementary DNA sequences on the microarray chips, wherein a signal is produced from said labeled probes upon hybridization of said probes to complementary DNA sequences;
- (e) detecting the signal produced in step (d); and